

## PATENT ABSTRACTS OF JAPAN

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### (54) PENCIL TYPE COSMETIC

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a pencil-type cosmetic having excellent usability of cosmetic packed in a cylindrical stick, excellent stability of chipping, cracking, breaking, etc., during use or cutting by packing a cosmetic into a cuttable cylindrical stick.

SOLUTION: This pencil-type cosmetic is characterized in that the cosmetic is obtained by packing a softened cosmetic into a stick hole of a cylindrical stick made of a resin having cuttability and solidifying the cosmetic and is used by cutting the tip side of the cylindrical stick. The cosmetic contains a liquid oil component and a fluid oil component having 600-3,000 molecular weight is contained in the liquid oil component.

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## CLAIMS

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[Claim(s)]

[Claim 1] They are the pencil mold cosmetics which are the pencil mold cosmetics which are filled up with the cosmetics which the axial hole of the cylinder shaft made of resin which has cutting ability was made to soften, are solidified, cut the tip side of said cylinder shaft, and use said cosmetics, and are characterized by said cosmetics containing liquefied oil and the fluid oil of molecular weight 600-3000 coming to contain them in this liquefied oil.

[Claim 2] Pencil mold cosmetics according to claim 1 said whose cylinder shaft made of resin is a cylinder shaft made of transparence resin.

[Claim 3] Pencil mold cosmetics according to claim 1 or 2 whose resin of said cylinder shaft made of resin is the composite material which uses an olefin system polymer as a base material.

[Claim 4] Pencil mold cosmetics according to claim 3 whose composite material which uses said olefin system polymer as a base material is the composite material containing an olefin system polymer and an acrylic polymer.

[Claim 5] Pencil mold cosmetics according to claim 3 or 4 said whose olefin system polymer is polypropylene.

[Claim 6] Pencil mold cosmetics according to claim 4 or 5 said whose acrylic polymer is polymethylmethacrylate.

[Claim 7] Pencil mold cosmetics given in claim 1 said whose fluid oil is the compound which has two or more ester groups in a monad thru/or any 1 term of 6.

[Claim 8] Pencil mold cosmetics according to claim 7 whose compound which has two or more ester groups in a monad is fatty acid ester of polyhydric alcohol.

[Claim 9] Pencil mold cosmetics according to claim 7 whose compound which has two or more ester groups in a monad is fatty alcohol ester of polybasic acid.

[Claim 10] Pencil mold cosmetics given in claim 1 said whose fluid oil is a hydrocarbon thru/or any 1 term of 6.

[Claim 11] Pencil mold cosmetics given in claim 1 whose fluid oil of said molecular weight 600-3000 is one sort of the compound chosen from the group which consists of Tori isostearic acid diglyceryl, a macadamia-nuts oil, malate diisostearyl, and polybutenes, or two sorts or more thru/or any 1 term of 6.

[Claim 12] Pencil mold cosmetics given in claim 1 whose content of the fluid oil of said molecular weight 600-3000 is said more than 50 mass [ in the liquefied oil whole quantity ] % thru/or any 1 term of 11.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the pencil mold cosmetics by which it filled

up with cosmetics in the cylinder shaft made of resin. It is related with the pencil mold cosmetics which were excellent in the usability of the cosmetics with which it filled up in the cylinder shaft in more detail, and were excellent in stability, such as a chip at the time of cutting or use, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft made of resin.

[0002]

[Description of the Prior Art] From the former, the pencil mold cosmetics by which the cylinder shaft was filled up with cosmetics, such as a lip stick, a lip liner, an eyeliner, eye shadow, an eye blow, foundation, rouge, and an eyebrow pencil, are known instead of the heart of a pencil as pencil mold cosmetics. The cylinder shaft usually wooden in these pencil mold cosmetics is used. Although the pencil mold cosmetics which consist of a wooden stem were manufactured by the approach of casting the cosmetics used as the heart using metal mold, inserting in the axial hole of the wooden stem divided into one half, and subsequently joining a wooden stem, they were time-consuming things. Therefore, it could manufacture by making it slushed and filled up with the cosmetics which the axial hole of a cylinder-like shaft was made to soften, and development of the pencil mold cosmetics with which it is satisfied of the quality characteristic as pencil mold cosmetics enough was desired.

[0003]

[Problem(s) to be Solved by the Invention] It is in offering the pencil mold cosmetics which this invention was made in view of the above-mentioned situation, and excelled [ purpose / the ] in the usability of the cosmetics with which it filled up in the cylinder shaft, and were excellent in stability, such as a chip at the time of use or cutting, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft which can be cut.

[0004]

[Means for Solving the Problem] It came to complete a header and this invention for the above-mentioned technical problem being solved by making specific oil contain in the liquefied oil which constitutes the cosmetics with which use for a cylinder pencil shaft the resin which can be cut, and it fills up in a cylinder pencil shaft, as a result of inquiring wholeheartedly, in order that this invention persons may solve the above-mentioned technical problem.

[0005] That is, it is the pencil mold cosmetics which this invention is filled up with the cosmetics which the axial hole of the cylinder shaft made of resin which has cutting ability was made to soften, are made to solidify it, cut the tip side of said cylinder shaft, and use said cosmetics, and they are the pencil mold cosmetics characterized by said cosmetics containing liquefied oil and the fluid oil of molecular weight 600-3000 coming to contain them in this liquefied oil.

[0006] Said cylinder shaft made of resin can be a cylinder shaft made of transparence resin, by using the transparent cylinder shaft made of resin, can be seen and can do the thing excellent in appearance-[ functional again ] aesthetics -- the color of internal cosmetics can distinguish from an outside. [ of the cosmetics which are the heart ]

[0007] As for the resin of said cylinder shaft made of resin, it is desirable that it is the composite material which uses an olefin system polymer as a base material, and it is desirable that it is the composite material which contains an olefin system polymer and an acrylic polymer especially. By using these ingredients, the resin shaft excellent in cutting ability, moldability, and transparency is acquired.

[0008] In addition, as for said olefin system polymer, it is desirable that it is polypropylene, and, as for said acrylic polymer, it is desirable that it is polymethylmethacrylate. The resin shaft especially these ingredients excelled [ shaft ] in cutting ability and moldability is acquired.

[0009] Moreover, the fatty acid ester of polyhydric alcohol, the fatty alcohol ester of polybasic acid, etc. are mentioned preferably [ that it is the compound which has two or more

ester groups in a monad ] by said fluid oil as a desirable example.

[0010] Moreover, said fluid oil can also be a hydrocarbon.

[0011] As for the fluid oil of said molecular weight 600-3000, in this invention, it is desirable that it is especially one sort of the compound chosen from the group which consists of Tori isostearic acid diglyceryl, a macadamia-nuts oil, malate diisostearyl, and polybutenes, or two sorts or more. In addition, in this invention, polybutenes say the hydrogenation object containing polybutene, the poly isobutene, butene isobutene copolymers, and these partial hydrogenation objects.

[0012] In this invention, what the content of the fluid oil of said molecular weight 600-3000 could not have seen peeling of the cosmetics of the inside wall surface ( contact surface with cosmetics) of the transparence shaft of the pencil mold cosmetics filled up with cosmetics when it be desirable that it be said more than 50 mass [ in the liquefied oil whole quantity ] % and a cylinder resin shaft be made into transparence by this, and turned into what have good appearance, and be excellent also in the stability of a transparence resin shaft be obtain.

[0013]

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained in full detail.

[0014] In this invention, the cylinder shaft made of resin which has cutting ability is used. Especially if it can cast by injection molding etc. easily as resin used for the cylinder shaft made of resin, it will not be limited, but since the color of cosmetics can be distinguished and it excels also in design in a very functional top even if a transparent thing does not shave a pencil, it is desirable. Generally, vinyl system polymers, such as an olefin system polymer and an acrylic polymer, etc. are used. It is desirable in respect of the transparent resin shaft which has the cutting ability which using the composite material which uses an olefin system polymer as a base material in these especially the composite material containing an olefin system polymer and an acrylic polymer, or the composite material containing an olefin system polymer and a styrene system polymer can delete easily with a commercial knife or a commercial sharpener (pencil sharpener) etc. and which has the outstanding moldability being made etc. Such composite material is the composite material which blended each polymer closely.

[0015] As for an olefin system polymer, polypropylene, such as polyethylene and high density polypropylene, ethylene propylene rubber, denaturation polypropylene, etc. are mentioned. Moreover, as for an acrylic polymer, polymethylmethacrylate, polyethyl methacrylate, polymethyl acrylate, etc. are mentioned. Moreover, as for styrene resin, polystyrene, an acrylonitrile styrene copolymer, acrylonitrile-butadiene-styrene copolymer, etc. are mentioned. In these, the composite material containing polypropylene, the composite material and polypropylene containing polymethylmethacrylate, and polystyrene is desirable. Such composite material is almost transparent after molding. The composite material which especially consists of polypropylene and polymethylmethacrylate is [ among these ] desirable. As for the mixed rate of the polypropylene in this case, and polymethylmethacrylate, 40:60-50:50 are desirable at a mass ratio. In addition, some other polymers may be mixed by such desirable composite material. For example, the styrene resin as some binding material is mixed by the composite material which consists of the above, especially desirable polypropylene and polymethylmethacrylate.

[0016] After generation of a cylinder shaft carries out the dryblend of the composite material beforehand in the case of the composite material of for example, an olefin system polymer, it is kneaded with a melting kneading machine. In melting kneading, it carries out above the temperature which an olefin system polymer fuses. subsequently, the composite material of the fused olefin system polymer -- a pressure -- a cylinder shaft -- public funds -- it pours in into a mold (injection), cooling solidification is carried out, and the injection molding of the cylinder shaft is carried out.

[0017] If the composite material of an olefin system polymer is used for the ingredient of a cylinder shaft, at the time of incineration, a toxic gas will not occur but it will be considered in environmental protection, such as air pollution.

[0018] Liquefied oil contains in the cosmetics in this invention, and the fluid oil of molecular weight 600-3000 contains in this liquefied oil. as fluid oil of molecular weight (the following and MW -- \*\* -- it says.) 600-3000, into a monad, a compound, a hydrocarbon, etc. which have two or more ester groups are mentioned, and a kind of these oil or two sorts or more are chosen and used. Molecular weight cannot demonstrate effectiveness of this inventions, such as the usability of cosmetics, and stability, less than by 600. Moreover, if 3000 is exceeded, the usability of cosmetics will worsen.

[0019] As a compound which has two or more ester groups in the monad blended with the cosmetics of this invention, the fatty acid ester of polyhydric alcohol or the fatty alcohol ester of polybasic acid is desirable.

[0020] As polyhydric alcohol which constitutes the fatty acid ester of polyhydric alcohol, TORIMECHI rolls, such as glycerols, such as glycols, such as propylene glycol, a butylene glycol, hexylene glycol, and neopentyl glycol, a glycerol, diglycerol, triglycerol, and polyglycerin, trimethylolethane, and trimethylol propane, pentaerythritol, etc. are mentioned. In these polyhydric alcohol, neopentyl glycol, a glycerol, diglycerol, trimethylol propane, and pentaerythritol are desirable. Especially diglycerol is desirable.

[0021] Moreover, as a fatty acid which constitutes the fatty acid ester of polyhydric alcohol, an octanoic acid, an isooctane acid, 2-ethylhexanoic acid, a lauric acid, a myristic acid, a palmitic acid, an iso palmitic acid, stearin acid, isostearic acid, oleic acid, 2-heptyl undecanoic acid, behenic acid, 12-hydroxy stearin acid, undecylenic acid, a toll acid, linolic acid, the Reno Laing acid, etc. are mentioned.

[0022] the above -- it combines suitably and the polyhydric alcohol and the fatty acid of these are chosen so that the molecular weight of the fatty acid ester of polyhydric alcohol may become fluid oil by 600-3000.

[0023] If molecular weight gives the concrete example of the fatty acid ester of the polyhydric alcohol which is fluid oil of 600-3000 Propylene glycol ester, such as JIISO stearin acid propylene glycol, Neopentyl glycol ester, such as distearic acid neopentyl glycol and JIISO stearin acid neopentyl glycol, G 2-heptyl undecanoic acid glyceryl, trimyristin acid glyceryl, The Tori Isopar Rumi Ching acid glyceryl, tree 2-heptyl undecanoic acid glyceryl, Glycerol ester, such as Tori isostearic acid glyceryl, Tori isostearic acid diglyceryl, Polyglycerin ester, such as JIISO stearin acid diglyceryl and tetra-isostearic acid diglyceryl, Trimethylol propane ester, such as Tori isostearic acid trimethylol propane, They are fats and oils, such as pentane erythritol ester, such as tetra--2-ethylhexanoic acid pentane erythritol and tetra-isooctane acid pentaerythritol, an avocado oil, Oenotherae Biennis oil, a macadamia-nuts oil, olive oil, and castor oil.

[0024] Pentane erythritol ester, such as trimethylol propane ester, such as polyglycerin ester, such as neopentyl glycol ester, such as distearic acid neopentyl glycol and JIISO stearin acid neopentyl glycol, Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, and tetra-isostearic acid diglyceryl, and Tori isostearic acid trimethylol propane, tetra--2-ethylhexanoic acid pentane erythritol, and tetra-isooctane acid pentaerythritol, and a macadamia-nuts oil are desirable among these ester.

[0025] Furthermore, trimethylol propane ester, such as polyglycerin ester, such as Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, and tetra-isostearic acid diglyceryl, and Tori isostearic acid trimethylol propane, and a macadamia-nuts oil are desirable.

[0026] Moreover, polyglycerin ester, such as Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, and tetra-isostearic acid diglyceryl, and a macadamia-nuts oil are still more desirable. Tori isostearic acid diglyceryl and a macadamia-nuts oil are especially desirable. Furthermore, Tori isostearic acid diglyceryl is the most desirable.

[0027] As polybasic acid which constitutes the fatty alcohol ester of polybasic acid, a succinic acid, a malic acid, an adipic acid, a sebacic acid, etc. are mentioned. A malic acid is desirable especially.

[0028] As fatty alcohol which constitutes the fatty alcohol ester of polybasic acid, branched chain alcohol, such as linear-alcohol; 2-hexyl decyl alcohol, such as lauryl alcohol, myristyl alcohol, cetyl alcohol, stearyl alcohol, isostearyl alcohol, oleyl alcohol, and cetostearyl alcohol, 2-heptyl undecyl alcohol, and 2-DESHIRUTETORADESHINORU, etc. is mentioned.

[0029] the above -- it combines suitably and the polybasic acid and aliphatic series ARUKO of these are chosen so that the molecular weight of the fatty alcohol ester of polybasic acid may become fluid oil by 600-3000.

[0030] If molecular weight gives the concrete example of the fatty alcohol ester of the polybasic acid which is fluid oil of 600-3000, it will be sebacic-acid ester, such as adipate, such as malic-acid ester, such as malate diisostearyl, and diheptylundecyl adipate, and sebacic-acid G 2-hexyl DESHIRU, etc. Malic-acid ester, such as malate diisostearyl, especially malate diisostearyl are desirable among these ester.

[0031] As an example of the hydrocarbon blended with the cosmetics of this invention, the hydrogenation object (these hydrocarbons are hereafter called polybutenes.) containing polybutene, the poly isobutene, butene isobutene copolymers, and these partial hydrogenation objects etc. is mentioned. In addition, as for the partial water garnish of a butene isobutene copolymer, the heavy flow isoparaffin of a "cosmetics raw material criteria" adoption raw material corresponds among polybutenes.

[0032] As mentioned above, a kind or two sorts or more are chosen, and the fluid oil of the above-mentioned molecular weight 600-3000 is used. Among the fluid oil of such molecular weight 600-3000 Neopentyl glycol ester, such as distearic acid neopentyl glycol and JIISO stearin acid neopentyl glycol, Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, Polyglycerin ester, such as tetra-isostearic acid diglyceryl, Trimethylol propane ester, such as Tori isostearic acid trimethylol propane, Malic-acid ester, such as pentane erythritol ester, such as tetra--2-ethylhexanoic acid pentane erythritol and tetra-isooctane acid pentaerythritol, a macadamia-nuts oil, and malate diisostearyl, and polybutenes are used preferably.

[0033] They are malic-acid ester, such as trimethylol propane ester, such as polyglycerin ester, such as Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, and tetra-isostearic acid diglyceryl, and Tori isostearic acid trimethylol propane, a macadamia-nuts oil, and malate diisostearyl, and polybutenes still more preferably.

[0034] Furthermore, malic-acid ester and polybutenes, such as polyglycerin ester, such as Tori isostearic acid diglyceryl, JIISO stearin acid diglyceryl, and tetra-isostearic acid diglyceryl, a macadamia-nuts oil, and malate diisostearyl, are desirable. one sort of the compound chosen from the group which consists of Tori isostearic acid diglyceryl, a macadamia-nuts oil, malate diisostearyl, and polybutenes especially in this invention -- or two or more sorts are used preferably.

[0035] In addition, although these desirable oil may be the whole quantity in the fluid oil of molecular weight 600-3000, since sufficient effectiveness will be demonstrated if it blends more than 30 mass %, the thing of molecular weight 600-3000 of which 30 in the fluid oil whole quantity -100 mass % combination is done is desirable. It is 50 to 100 mass % still more preferably. Furthermore, 80 - 100 mass % is desirable, and 100 mass % is the most desirable.

[0036] In this invention, other liquefied oil can be blended as fluid oil in addition to the fluid oil of the above-mentioned molecular weight 600-3000. As said liquefied oil which can be blended with this invention, especially if it may be blended with cosmetics, it will not be limited. As an example of this liquefied oil, G 2-ethylhexanoic acid ethylene glycol, Neopentylglycol dicaprate, JIOKUTAN acid neopentyl glycol, G 2-heptyl undecanoic acid

glyceryl, the Tori octanoic-acid glyceryl, Tree 2-ethylhexanoic acid glyceryl, isooctane acid triglyceryl, Tree 2-ethylhexanoic acid trimethylol propane, TORII soak tongue acid trimethylol propane, Sorbitan sesquioleate, octanoic-acid cetyl, 2-ethylhexanoic acid cetyl, Dimethyl octanoic-acid hexyl DESHIRU, lauric-acid ethyl, lauric-acid hexyl, Myristic-acid isopropyl, myristic-acid 2-hexyl DESHIRU, myristic-acid Millis Chill, Myristic-acid octyldodecyl, palmitic-acid isopropyl, palmitic-acid 2-ethylhexyl, Palmitic-acid 2-hexyl DESHIRU, palmitic-acid 2-heptyl undecyl, Butyl stearate, stearin acid isocetyl, isostearic acid isocetyl, Oleic acid DESHIRU, oleic acid dodecyl, oleic acid oleyl, oleic acid 2-octyldodecyl, Lactic-acid Millis Chill, lactic-acid cetyl, succinic-acid 2-ethylhexyl, diisobutyl adipate, Ester, such as adipic-acid 2-hexyl DESHIRU, sebacic acid diisopropyl, and di-2-ethylhexyl sebacate Hydrocarbons, such as a liquid paraffin, pristane, and squalane, dimethylpolysiloxane, Polysiloxanes, such as a methylphenyl polysiloxane, a diphenyl polysiloxane, octamethylcyclotetrasiloxane, decamethyl cyclopentasiloxane, and a dodeca methylcyclohexane siloxane, etc. are mentioned.

[0037] The loadings of the above and the fluid oil of the molecular weight 600-3000 of this invention have desirable 10 in the liquefied oil whole quantity - 100 mass %. If it is these loadings, pencil mold cosmetics with the sufficient usability excellent in stability, such as a crease to cosmetics, will be obtained. Of course, you may be the whole quantity in liquefied oil. The still more desirable loadings of the fluid oil of the above-mentioned molecular weight 600-3000 are 30 to 100 in the liquefied oil whole quantity mass %. Still more preferably, it is 50 to 100 mass %, and 65 - 100 mass % is still more desirable. Especially, it is desirable that it is 80 to 100 mass %. When the above-mentioned loadings make a cylinder resin shaft transparence above 50 mass %, what peeling of cosmetics was not visible to the inside wall surface (contact surface with cosmetics) of the transparence shaft of the pencil mold cosmetics filled up with cosmetics, and turned into what has good appearance, and was excellent also in the stability of a transparence resin shaft is obtained.

[0038] The loadings of full-liquefied oil including the fluid oil of molecular weight 600-3000 in this invention have desirable 10 in the cosmetics whole quantity - 90 mass %. It is 30 to 80 mass % still more preferably. Especially, 40 - 70 mass % is desirable. The fluid oil of said molecular weight 600-3000 may occupy all of the liquefied oil.

[0039] In this invention, it is desirable that solid oil is blended further. As an example of solid oil, higher alcohol, such as hydrocarbon system waxes, such as lows, such as solid-state fats and oils, such as cacao butter, hardened oil, Japan wax, and hydrogenated castor oil, yellow bees wax, a candelilla low, a carnauba wax, and lanolin, polyethylene wax, paraffin wax, a ceresin, and a micro crystallin wax, cetyl alcohol, cetostearyl alcohol, and behenyl alcohol, etc. is mentioned. A micro crystallin wax and yellow bees wax are mentioned as that from which a good result is obtained among these combining the specific liquefied oil concerning above-mentioned this invention. These solid oil improves the stability of cosmetics.

[0040] The loadings of solid oil have desirable 10 in the cosmetics whole quantity - 60 mass %. It is 20 to 50 mass % still more preferably.

[0041] In this invention, powder, such as a pigment and color material, can be blended further. As a powdered example, talc, a kaolin, a mica, a sericite, an aluminum silicate, Silicic-acid barium, a magnesium silicate, a calcium carbonate, a silica, a barium sulfate, Inorganic powder, such as ceramic powder and boron nitride; Polyamide resin powder (nylon powder), Polyethylene powder, polymethyl-methacrylate powder, polystyrene powder, Organic powder, such as cellulose powder, an organopolysiloxane elastomer, and bridge formation polystyrene; A titanium dioxide, A zinc oxide, ferrous oxide (red ocher), titanic-acid iron, gamma-ferrous oxide, yellow oxide of iron, Black oxide of iron, cobalt violet, chromic oxide, cobalt blue, ultramarine blue, Inorganic pigments, such as Berlin blue; organic pigments, such as the pearl pigment; red No. 202, such as a titanium oxide coated mica, bismuth oxychloride, and a scales foil, red No. 226, red No. 405, orange No. 203, yellow No.

401, and blue No. 404, etc. are mentioned.

[0042] The above-mentioned powder may be blended after performing these compound processings further, processing by siliconization, metallic soap processing, fatty-acid processing, surfactant processing or the acid, alkali, and mineral, and.

[0043] Powdered loadings have desirable 5 in the cosmetics whole quantity - 60 mass %. It is 20 to 50 mass % still more preferably.

[0044] It is possible to blend resin, a moisturizer, antiseptics, an antioxidant, perfume, drugs, a solvent, etc. with the cosmetics of this invention under the qualitative and quantitative conditions which do not spoil the effectiveness of this invention if needed in addition to the above-mentioned component.

[0045] Although cosmetics are preferably filled up with a back restoration method into a cylinder shaft in manufacture of the pencil mold cosmetics of this invention, it is desirable in that case to use the mold equipped with the molding hole which casts the tip configuration of cosmetics in a rocket form as a molding jig. And a molding hole, an axial hole, and the softened cosmetics are poured into the molding hole of a mold from the back end of a cylinder shaft. And the point of cosmetics will be cast by the rocket form, if a cylinder shaft is made to separate from a mold after cosmetics carry out cooling solidification.

[0046] The pencil mold cosmetics of this invention apply to a makeup part the cosmetics projected from the tip of a cylinder shaft, or they are used for them, taking with pen etc. Moreover, when the cosmetics projected from the tip of a cylinder shaft decrease, the point of a cylinder shaft is shaved off with a sharpener etc. and cosmetics are made to newly project.

[0047] The pencil mold cosmetics of this invention are applicable as a lip stick, a lip liner, an eyeliner, ikara, eye shadow, an eye blow, a concealer, foundation, rouge, etc.

[0048]

[Example] Next, an example is given and this invention is explained to a detail. This invention is not limited by this. In addition, especially loadings are mass % unless it refuses. The effectiveness test method and valuation basis which were used by this invention in advance of explanation of an example are explained.

[0049] In order to examine [stability of cosmetics at time of cutting] daily article, what paid the sample for the pencil mold cosmetics after manufacture to the thermostat under the 5-40-degree C acceleration conditions on a cycle / 1st for five days was made into the test sample. A trial continued deleting the above-mentioned sample with the sharpener for pencil mold cosmetics, and made the rejection what broke 3 times or more by the time the pencil became short. Ten pencils performed this trial.

O 0-1 is a rejection among :10.

O 2-3 are a rejection among :10.

\*\* : 4-6 are a rejection among ten.

x : 7-10 are a rejection among ten.

[0050] I had ten [stability of cosmetics at time of use] female panels usually use a sample each for a passage (however, I have you surely use it once per day), this was continued for two weeks, and the number with generating of a crease was investigated.

O The number with generating of :crease is 0-1 person.

O The number with generating of :crease is 2-3 persons.

\*\* : The number with generating of a crease is 4-6 persons.

x : The number with generating of a crease is 7-10 persons.

[0051] The inside wall surface (contact surface with cosmetics) of the transparence shaft of the pencil mold cosmetics filled up with [appearance of appearance] cosmetics was observed with the naked eye.

O : peeling of cosmetics cannot be seen and it is good-looking.

\*\* : Peeling can be a little seen.

x : Peeling can be seen.



[0052] The pencil mold cosmetics filled up with [stability of transparence shaft] cosmetics were gently put on the thermostat (40 degrees C and 50 degrees C) for one month, and the appearance of a transparence shaft was observed with the naked eye.

O : neither the deflection of a shaft nor milkiness is seen, but it is good-looking.

O : it is good-looking although the deflection of a shaft and either of the milkiness are seen slightly.

\*\* : The deflection of the shaft which clarified, and either of the milkiness are seen, and appearance is bad.

x : A shaft bends, and since it is deflection, cosmetics break.

[0053] The pencil mold cosmetics filled up with [cutting ability of shaft] cosmetics were cut with the sharpener.

O : it can cut.

x : It cannot cut.

[0054] I had the sample used for ten [usability] female panels as usual, and the luster of cosmetics and makeup \*\*\*\* were evaluated 3 hours after after spreading.

O 9-10 persons answer that it is fitness among :ten persons.

O 6-8 persons answer that it is fitness among :ten persons.

\*\* : 3-5 persons answer among ten persons that it is fitness.

x : 0 - a binary name answer among ten persons that it is fitness.

[0055] "Examples 1-40 and the examples 1-2 of a comparison"

(Process) The axial hole by the side of the back end of the cylinder shaft made of resin was made to slush, fill up with, (back restoration) cool and solidify the ikara which consists of a presentation of Tables 1-7 at 80-90 degrees C, and pencil mold ikara was obtained. In addition, the used resin is transparence composite material (the mass ratio of polypropylene and polymethylmethacrylate is 50:50) with the polymethylmethacrylate to which polyethylene, Table 2, a Table 4 table, Table 5, Table 6, and Table 7 use [ Table 1 and Table 3 ] an olefin system polymer (polypropylene) as a base material. Moreover, the above-mentioned cosmetics (ikara) carried out the heating dissolution of the solid oil under presentation, and the liquefied oil at 90-100 degrees C, and the color material after filtration and an extender were added at 85-90 degrees C, and they were distributed and mixed. Subsequently, it deaerated and obtained. Moreover, the evaluation result was shown in the same tables 1-7.

[0056]

[Table 1]

	比較例	実施例				
	1	1	2	3	4	5
マイケクリスチンワックス	5.0	5.0	5.0	5.0	5.0	5.0
セレシン	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0
リコノ酸シイソステaryl (MW:639)	—	50.0	—	—	—	—
トリステaryl酸シイソステaryl (MW:966)	—	—	50.0	—	—	—
ポリリゾアール (平均MW:1400)	—	—	—	50.0	—	—
重質流動パラフィン (平均MW:2700)	—	—	—	—	50.0	—
カデミナツオイル (約MW:850)	—	—	—	—	—	50.0
パルミチン酸イソプロピル (MW:298)	50.0	—	—	—	—	—
マイカ	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5
雲母チタン	25.0	25.0	25.0	25.0	25.0	25.0
切削時の化粧料の安定性	×	◎	◎	◎	◎	◎
使用時の化粧料の安定性	×	◎	◎	◎	◎	◎
軸の切削性	○	○	○	○	○	○
使用性(1) つや	◎	◎	◎	◎	◎	◎
使用性(2) 化粧持ち	○	◎	◎	◎	◎	◎

[0057] As shown in Table 1, each pencil mold ikara which blended the fatty acid ester (example 2) of the polyhydric alcohol of this invention, the fatty alcohol ester (example 1) of polybasic acid, a hydrocarbon (examples 3 and 4), and fats and oils (example 5), respectively was excellent in the usability of cosmetics, and stability. The example 1 of a comparison which, on the other hand, blended only palmitic-acid isopropyl with low molecular weight was a thing inferior to the stability of cosmetics.

[0058]

[Table 2]

	比較例	実施例				
	2	6	7	8	9	10
マクロクリンワックス	5.0	5.0	5.0	5.0	5.0	5.0
セレシン	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0
リコパ酸システアリル (MW:639)	—	50.0	—	—	—	—
トリリスチン酸システアリル (MW:966)	—	—	50.0	—	—	—
ポリオクタノール (平均MW:1400)	—	—	—	50.0	—	—
重質流動イソパラフィン (平均MW:2700)	—	—	—	—	50.0	—
セチルステアレート (MW:850)	—	—	—	—	—	50.0
パルミチン酸イソプロピル (MW:298)	50.0	—	—	—	—	—
マイカ	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5
玄母チタン	25.0	25.0	25.0	25.0	25.0	25.0
切削時の化粧料の安定性	×	◎	◎	◎	◎	◎
使用時の化粧料の安定性	×	◎	◎	◎	◎	◎
軸の切削性	○	○	○	○	○	○
使用性 (1) つや	◎	◎	◎	◎	◎	◎
使用性 (2) 化粧持ち	○	◎	◎	◎	◎	◎

[0059] As shown in Table 2, also when transparency composite material with the polymethylmethacrylate which uses an olefin system polymer (polypropylene) as a base material by this cosmetics presentation with Table 1 was used for a resin shaft, each pencil mold ikara which blended the fatty acid ester (example 7) of the polyhydric alcohol of this invention, the fatty alcohol ester (example 6) of polybasic acid, a hydrocarbon (examples 8 and 9), and fats and oils (example 10), respectively was excellent in the usability of cosmetics, and stability. The example 2 of a comparison which, on the other hand, blended only palmitic-acid isopropyl with low molecular weight was a thing inferior to the stability of cosmetics.

[0060]

[Table 3]

	実施例					
	11	12	13	14	15	16
マイケクリスクリンワックス	5.0	5.0	5.0	5.0	5.0	5.0
セレンシ	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0
リコステロール (MW:639)	3.0	7.0	13.0	16.0	20.0	25.0
トリスチロール酸ステアレート (MW:966)	1.0	6.5	10.0	13.0	16.0	20.0
ポリソアテン (平均MW:1400)	1.0	1.5	2.0	3.5	4.0	5.0
パルミチン酸イソステアレート (MW:298)	45.0	35.0	25.0	17.5	10.0	—
マイカ	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5
炭母チタン	25.0	25.0	25.0	25.0	25.0	25.0
切削時の化粧料の安定性	○	○	◎	◎	◎	◎
使用時の化粧料の安定性	○	○	◎	◎	◎	◎
軸の切削性	○	○	○	○	○	○
使用性(1) つや	○	○	◎	◎	◎	◎
使用性(2) 化粧持ち	○	○	◎	◎	◎	◎

[0061] As shown in Table 3, each of 10 in the liquefied oil whole quantity mass % (example 11), 30 mass % (example 12), 50 mass % (example 13), 65 mass %s (example 14), 80 mass %s (example 15), and pencil mold ikaras of which 100 mass % (example 16) combination was done was excellent in the usability of cosmetics, and stability in the fluid oil of the molecular weight 600-3000 of this invention. It turns out that usability and stability are further excellent especially in loadings being more than 50 mass [ in the liquefied oil whole quantity ] %.

[0062]

[Table 4]

	実施例					
	17	18	19	20	21	22
マイケクリスクリンワックス	5.0	5.0	5.0	5.0	5.0	5.0
セレンシ	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0
リコステロール (MW:639)	3.0	7.0	13.0	16.0	20.0	25.0
トリスチロール酸ステアレート (MW:966)	1.0	6.5	10.0	13.0	16.0	20.0
ポリソアテン (平均MW:1400)	1.0	1.5	2.0	3.5	4.0	5.0
パルミチン酸イソステアレート (MW:298)	45.0	35.0	25.0	17.5	10.0	—
マイカ	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5
炭母チタン	25.0	25.0	25.0	25.0	25.0	25.0
切削時の化粧料の安定性	○	○	◎	◎	◎	◎
使用時の化粧料の安定性	○	○	◎	◎	◎	◎
軸の切削性	○	○	○	○	○	○
使用性(1) つや	○	○	◎	◎	◎	◎
使用性(2) 化粧持ち	○	○	◎	◎	◎	◎

[0063] As shown in Table 4, also when transparence composite material with the polymethylmethacrylate which uses an olefin system polymer (polypropylene) as a base material by this cosmetics presentation with Table 3 is used for a resin shaft The fluid oil of the molecular weight 600-3000 of this invention 10 in the liquefied oil whole quantity mass % (example 17), Each of 30 mass % (example 18), 50 mass % (example 19), 65 mass %s (example 20), 80 mass %s (example 21), and pencil mold ikaras of which 100 mass % (example 22) combination was done was excellent in the usability of cosmetics, and stability. It turns out that usability and stability are further excellent especially in loadings being more than 50 mass [ in the liquefied oil whole quantity ] %.

[0064]

[Table 5]

	実施例					
	23	24	25	26	27	28
マイケルクリスタルワックス	5.0	5.0	5.0	5.0	5.0	5.0
セレンシ	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0
リゾール酸ジイソステアール (MW:639)	5.0	9.0	13.0	16.0	20.0	25.0
トリイソステアール酸ジイソステアール (MW:986)	4.0	7.0	10.0	13.0	16.0	20.0
ポリイソブチン (平均MW:1400)	1.0	1.5	2.0	3.5	4.0	5.0
パルミチン酸イソステアール (MW:298)	40.0	32.5	25.0	17.5	10.0	—
マイカ	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5
炭素チタン	25.0	25.0	25.0	25.0	25.0	25.0
外観の見栄え	×	×	○	○	○	○
透明軸の安定性 (40℃)	×	△	◎	◎	◎	◎
透明軸の安定性 (50℃)	×	×	○	◎	◎	◎

<EMI ID=000006 HE=085 WI=103 LX=0535 LY=1600> [0065] As shown in Table 5, to the transparence resin shaft which generated the polypropylene of transparence from composite material with the polymethylmethacrylate used as a base material, in the fluid oil of the molecular weight 600-3000 of this invention, each of 50 in the liquefied oil whole quantity mass % (example 25), 65 mass %s (example 26), 80 mass %s (example 27), and pencil mold ikaras of which 100 mass % (example 28) combination was done had the good appearance of an appearance, and the stability of a shaft was also excellent.

[0066]

[Table 6]

	実施例			
	29	30	31	32
マイクロクリスタリンワックス	5.0	5.0	8.0	8.0
セレンシン	6.0	6.0	5.0	5.0
キャンデリラロウ	4.0	4.0	2.0	2.0
ミツロウ	5.0	5.0	5.0	5.0
マカデミアナッツオイル (MW:約850)	—	—	20.0	20.0
システアリン酸ネオペンチルグリコール (MW:636)	—	6.0	—	—
トリスステアリン酸グリセリル (MW:892)	—	—	13.0	20.0
トリスステアリン酸トリメチロールプロパン (MW:932)	10.0	10.0	—	—
テトラ-2-エチルヘキサン酸ペンタエリトリット (MW:640)	5.0	10.0	—	—
セバシン酸ジ-2-ヘキシルチン (MW:650)	—	—	10.0	15.0
重質流動イソパラフィン (平均MW:2700)	5.0	—	5.0	5.0
トリスオクタン酸トリメチロールプロパン (MW:512)	—	—	12.0	—
イソオクタン酸トリグリセリル (MW:470)	20.0	14.0	—	—
マイカ	38.5	38.5	18.5	18.5
コバルトブルー	1.5	1.5	1.5	1.5
切削時の化粧料の安定性	○	○	○	○
使用時の化粧料の安定性	○	○	○	○
外観の見栄え	○	○	○	○
透明軸の安定性 (40℃)	◎	◎	◎	◎
透明軸の安定性 (50℃)	○	◎	◎	◎
軸の切削性	○	○	○	○
使用性 (1) つや	◎	◎	◎	◎
使用性 (2) 化粧持ち	◎	◎	◎	◎

[0067] The fluid oil of the molecular weight 600-3000 of this invention to the pencil mold ikara which did 40 mass [ in the whole quantity ] % combination of liquefied oil so that clearly from Table 6 50 mass % (example 29) and 65 mass % (example 30), Moreover, the fluid oil of the molecular weight 600-3000 of this invention is known by that each of 80 mass %s (example 31) and pencil mold ikaras of which 100 mass % (example 32) combination was done demonstrates the effectiveness of this invention enough at the pencil mold ikara which did 60 mass [ in the whole quantity ] % combination of liquefied oil.

[0068]

[Table 7]

	実施例							
	33	34	35	36	37	38	39	40
マイクロシリカナックス	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
セレンシ	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
キャンデリラロウ	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
ミツロウ	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
リコ酸ジイソステアール (MW:639)	25.0	25.0	25.0	20.0	—	10.0	10.0	10.0
トリイステアール酸ジステアリル (MW:966)	25.0	—	—	10.0	20.0	10.0	5.0	10.0
マテマアツイロ (MW:約850)	—	25.0	—	20.0	10.0	20.0	5.0	10.0
重質流動イソパラフィン (平均MW:2700)	—	—	25.0	—	20.0	10.0	5.0	5.0
ジイステアール酸ジステアリル (MW:699)	—	—	—	—	—	—	10.0	—
トリイステアール酸トリステアロールパルン (MW:932)	—	—	—	—	—	—	5.0	—
トリイステアール酸ジステアリル (MW:1232)	—	—	—	—	—	—	10.0	—
パルミチン酸イソパルン (MW:298)	—	—	—	—	—	—	—	5.0
トリイオクタン酸トリステアロールパルン (MW:512)	—	—	—	—	—	—	—	5.0
イオクタン酸トリステアリル (MW:470)	—	—	—	—	—	—	—	5.0
マイカ	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
コバルトブルー	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
寝母チタン	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
切削時の化粧料の安定性	◎	◎	◎	◎	◎	◎	◎	◎
使用時の化粧料の安定性	◎	◎	◎	◎	◎	◎	◎	◎
外観の良栄え	○	○	○	○	○	○	○	○
透明軸の安定性 (40℃)	◎	◎	◎	◎	◎	◎	◎	◎
透明軸の安定性 (50℃)	◎	◎	◎	◎	◎	◎	◎	◎
軸の切削性	○	○	○	○	○	○	○	○
使用性 (1) つや	◎	◎	◎	◎	◎	◎	◎	◎
使用性 (2) 化粧持ち	◎	◎	◎	◎	◎	◎	◎	◎

[0069] It turns out that each pencil mold ikara which blended the fluid oil of the molecular weight 600-3000 of various kinds of this inventions demonstrates the effectiveness of this invention enough so that clearly from Table 7.

[0070] Hereafter, an example is given and explained further. These were manufactured according to the approach of an example 1. In addition, resin used transparency composite material (the mass ratio of polypropylene and polymethylmethacrylate is 40:60) with the polymethylmethacrylate which uses an olefin system polymer (polypropylene) as a base material.

[0071]

**Example 41 Lip liner pencil Combination component Loadings (mass %)**

A ceresin 9.0 yellow bees wax 2.0 carnauba waxes 3.0 polybutenes 10.0 liquefied lanolin (MW about 700.0) 12.0 Tori isostearic acid diglyceryl (MW965.6) 12.0 malate diisostearyl (MW639.1) 12.0 Tori 2-ethylhexanoic acid glyceryl 22.46 sorbitan sesquioleate 1.0 natural vitamin E A 0.04 siliconizing mica 3.0 red No. 202 3.2 blue No. 1 0.5 titanium oxide 6.0 yellow oxide of iron 2.1 red ocher 1.6 black oxide of iron 0.1 [0072]

**Example 42 Ikara pencil Combination component Loadings (mass %)**

A ceresin A 6.0micro crystallin wax A 5.0 candelilla low 4.0 yellow bees wax A 5.0 macadamia-nuts oil (MW about 850) 10.0 Tori isostearic acid diglyceryl (MW965.6) 20.0

malate diisostearyl (MW639.1) 16.96 sorbitan sesquioleate 0.5 natural vitamin E 0.04 micas 3.0 cobalt blue 1.5 mica titanium 28.0 [0073]

Example 43 Eye blow pencil Combination component Loadings (mass %)

A ceresin 14.0 polyethylene A 2.0 candelilla low 4.5 carnauba waxes A 2.5micro crystallin wax 4.0 Tori isostearic acid diglyceryl (MW965.6) 16.96 sorbitan sesquioleate 1.0 natural vitamin E 0.04 sericites 5.0 silicic acid anhydrides 0.5 black oxide of iron 47.3 Berlin blue 2.2 [0074]

Example 44 Concealer pencil Combination component Loadings (mass %)

Carnauba wax 4.5 hydrogenated castor oil 5.0 yellow bees wax A 6.0micro crystallin wax 3.5 hardened oil A 13.0 macadamia-nuts oil (MW about 850) 10.0 Tori isostearic acid diglyceryl (MW965.6) 17.96 natural vitamin E 0.04 micas 15.4 titanium oxide 20.4 red ocher 1.3 yellow oxide of iron 2.9 [0075]

Example 45 Eyeliner pencil Combination component Loadings (mass %)

A ceresin The end of 8.0 polyethylene A 3.0 candelilla low A 3.0micro crystallin wax 6.0 Tori isostearic acid glyceryl (MW891.5) 30.0 squalane 14.46 dimethylpolysiloxane 10.0 sorbitan sesquioleate 0.5 natural vitamin E 0.04 micas 10.0 polymethylmethacrylate 5.0 blue 1 No. AL 2.0 mica titanium 8.0 [0076]

Example 46 Concealer pencil Combination component Loadings (mass %)

Carnauba wax 4.5 hydrogenated castor oil 5.0 yellow bees wax A 6.0micro crystallin wax 3.5 hardened oil A 13.0 macadamia-nuts oil (MW about 850) 14.0 malate diisostearyl (MW639.1) 13.96 natural vitamin E 0.04 micas 15.4 titanium oxide 20.4 red ocher 1.3 yellow oxide of iron 2.9 [0077]

Example 47 Lip liner pencil Combination component Loadings (mass %)

A ceresin 9.0 yellow bees wax 2.0 carnauba waxes 3.0 heavy flow isoparaffin (average MW2700) 12.0 Tori isostearic acid diglyceryl (MW965.6) 22.0 malate diisostearyl (MW639.1) 12.0 Tori 2-ethylhexanoic acid glyceryl 22.46 sorbitan sesquioleate 1.0 natural vitamin E 0.04 siliconizing mica 3.0 red No. 202 3.2 blue No. 1 0.5 titanium oxide 6.0 yellow oxide of iron 2.1 red ocher 1.6 black oxide of iron 0.1 [0078] Examples 41-47 excelled [ each ] in the usability of cosmetics, and were excellent in stability, such as a chip at the time of use, a check, and a crease, at the time of cutting. Moreover, peeling of cosmetics was not visible to the inside wall surface (contact surface with cosmetics) of a transparence shaft, it was good-looking and it was further excellent also in the stability of the shaft made of transparence resin.

[0079]

[Effect of the Invention] As mentioned above, the pencil mold cosmetics which were excellent in the usability of the cosmetics with which it filled up in the cylinder shaft according to this invention as explained in full detail, and were excellent in stability, such as a chip at the time of cutting or use, a check, and a crease, and by which it filled up with cosmetics in the cylinder shaft made of resin are obtained. Moreover, what whose peeling of cosmetics was not [ what filled up with the olefin system polymer the transparent cylinder shaft made of resin generated with the composite material used as a base material ] visible to the inside wall surface (contact surface with cosmetics) of a transparence shaft, and it turned into what has good appearance, and was excellent also in the stability of the shaft made of transparence resin is obtained.

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